

FIELD REPORT

Bass Collection

River Operable Unit, Bradford Island

Cascade Locks, OR

Sample Dates: March to July 2022



Prepared by:

U.S. Army Corps of Engineers

Seattle District

August 2022



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1.0 Introduction

The purpose of the field report is to document the activities conducted during bass collection at the River Operable Unit (OU) of Bradford Island. This document provides a summary of those activities, copies of field documentation kept, notable observations, and any field deviations to the approved final Quality Assurance Project Plan (QAPP) (USACE, 2022).

2.0 Project Background

The US Army Corps of Engineers (USACE) conducted a Remedial Investigation and Feasibility Study (RI/FS) for the in-water portion of Bradford Island, known as the River OU, in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Executive Order 12580. As part of the RI/FS, USACE evaluated risk to human health and the environment from exposure to surface water and sediment in the River OU. Based on the unacceptable risks identified for the River OU, USACE determined remedial action is necessary in order to reduce risk to human health and the environment.

Previous field efforts performed between 2006 and 2011 in support of the RI found elevated levels of PCBs in Smallmouth bass, relative to fish collected from upstream reference areas. PCBs in crayfish tissues from the Site were also elevated, relative to the reference area. During the FS, USACE conducted supplemental passive porewater sampling and sediment trap deployment in 2017 and 2018. This sampling effort included underwater video survey, with underwater images of the river bottom along the northern shoreline of Bradford Island showing minimal sediment and large cobbles and boulders. This lack of sediment raised concern regarding the continued presence of contaminated sediment and the validity of the conceptual site model (CSM) developed in support of the FS. Subsequently, USACE began collecting data to update the CSM for the River OU. The intent of this data is to help inform the current site conditions for the River OU and to aid in development of remedial action alternatives in a revised FS.

3.0 Project Objectives

As described in the Final Work Plan and QAPP for bass (USACE, 2022), the overall goal of this tissue collection effort and acoustic telemetry study is to update and confirm the conceptual site model presented in the RI/FS. Given the amount of time since previous tissue sampling efforts in 2011, coupled with the recent visual observations of the complex river bottom along the northern shoreline of Bradford Island, USACE believes this effort is prudent to undertake as part of the process to inform remedial alternative development and selection. Detailed Project Quality Objectives for bass can be found in the QAPP.

4.0 Sampling Activities

4.1 Bass Collection

The United States Geological Survey (USGS), led by Toby Kock, performed the bass collection for both the bass to be sent for chemical analysis and the bass to be tagged for the acoustic

telemetry study. Collection took place between March 14th and July 12th, Monday through Friday. Fieldwork was cancelled for some dates during the early portion of the collection period due to high water flows. Fieldwork was also postponed several weeks in April when it became apparent that below average water temperatures were limiting catch success. Bass were collected via angling for purposes of retaining fish for chemical analysis of whole body as well as for the bass that were tagged for acoustic telemetry. Tail lengths for all bass were measured to the nearest millimeter. Mass for each bass was collected at the end of each field day back at the USGS laboratory.

Stomach contents were purged from bass using gastric lavage, with methods prescribed in the QAPP. Stomach contents were retained and archived when sufficient mass could be obtained. Field notes provided descriptive text for any stomach content that was purged from bass.

USGS led the effort to collect, tag, and release bass for acoustic telemetry.

Table 1. Sample catch by date for chemical analysis

Date Collected (2022)	Total Number Collected
March 14	1
March 16	2
March 21	3
March 22	1
March 29	1
March 31	5
April 5	2
April 6	1
April 7	2
April 8	2
April 20	3
April 21	22
May 4	1
May 19	16
May 24	7
June 28	2
July 6	5
July 12	4
TOTAL	80

Table 2. Sample catch by location for chemical analysis

Location Collected	Total Number Collected
Bradford	44
Goose	20
Reference	16
TOTAL	80

Table 3. Sample catch by date for telemetry

Date Collected (2022)	Total Number Tagged
March 23	2
March 28	3
March 29	1
March 30	3
May 12	10
May 20	15
TOTAL	34

Table 4. Sample catch by location for telemetry

Location Collected	Total Number Tagged
Goose Island	9
North Bradford	8
Reference Area	2
South Bradford	15
TOTAL	34

5.0 Decontamination of Equipment and Waste Disposal

Sample equipment was regularly rinsed with site water if visible sediment or debris was present.

Solid waste, including nitrile gloves and aluminum foil, was collected in garbage bags and disposed of in commercial waste receptacles.

6.0 Sample Packaging and Shipping

All samples were held in a freezer at the USGS laboratory until shipment to the analytical laboratory on July 13th. All samples were shipped overnight via FedEx on dry ice and arrived within the acceptable temperature range.

7.0 Field Deviations from the QAPP

No notable field deviations occurred during collection of bass.

Any laboratory deviations encountered will be documented in the Final Data Report.

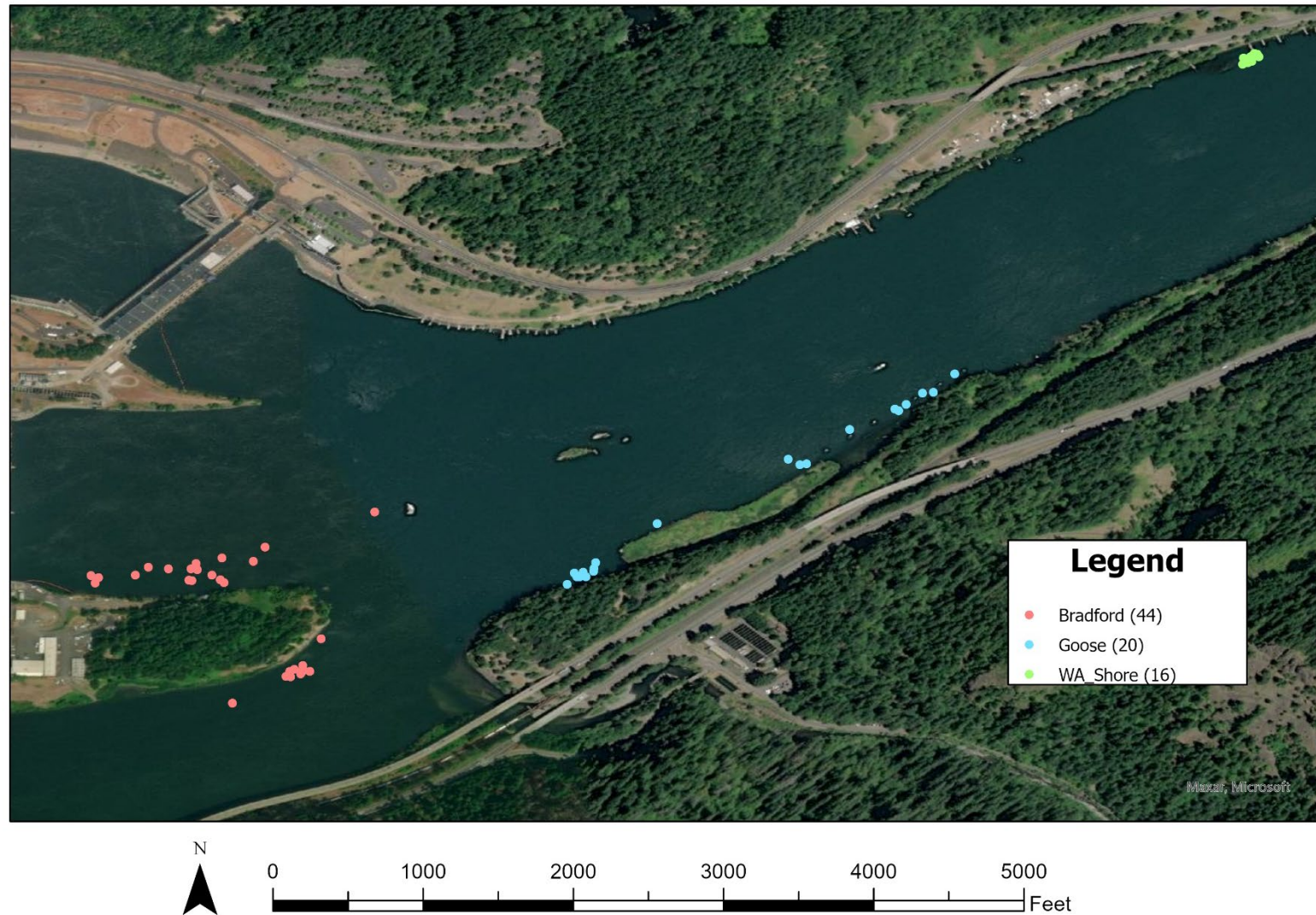
References

USACE (United States Army Corps of Engineers). 2012. *Bonneville Project Safety Program*. March.

USACE. 2022. Final Work Plan with Quality Assurance Project Plan for Smallmouth Bass Acoustic Telemetry and Tissue Sampling for Spring 2022 at River Operable Unit, Bradford Island, Cascade Locks, Oregon. March 4, 2022

ATTACHMENT: Maps

Bradford Island Bass Tissue Sampling Spring 2022



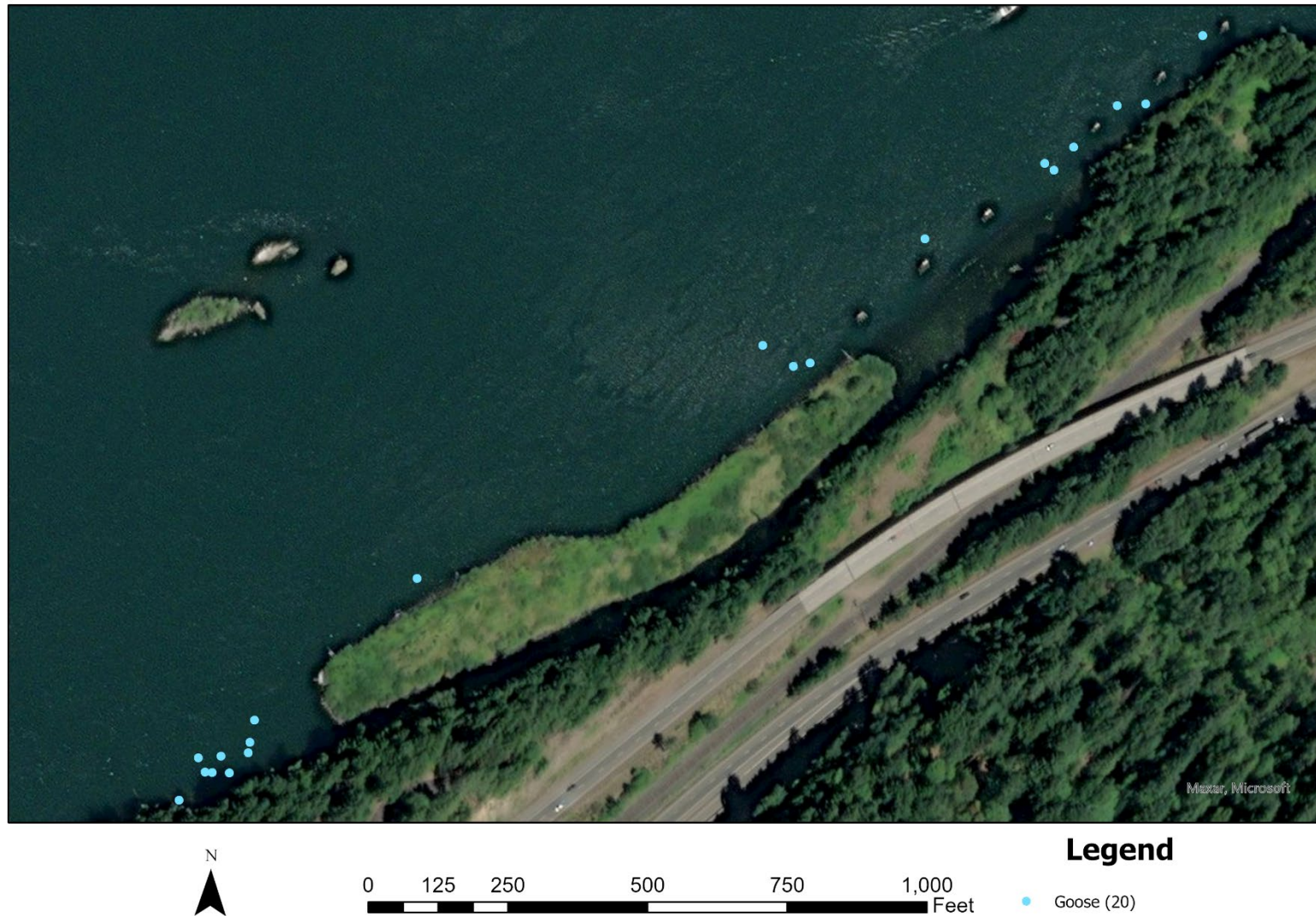
Map 1. Catch locations for smallmouth bass, all locations collected between 14 March and 12 July 2022.

Spring Bass 2022 Tissue Collection Area: Bradford



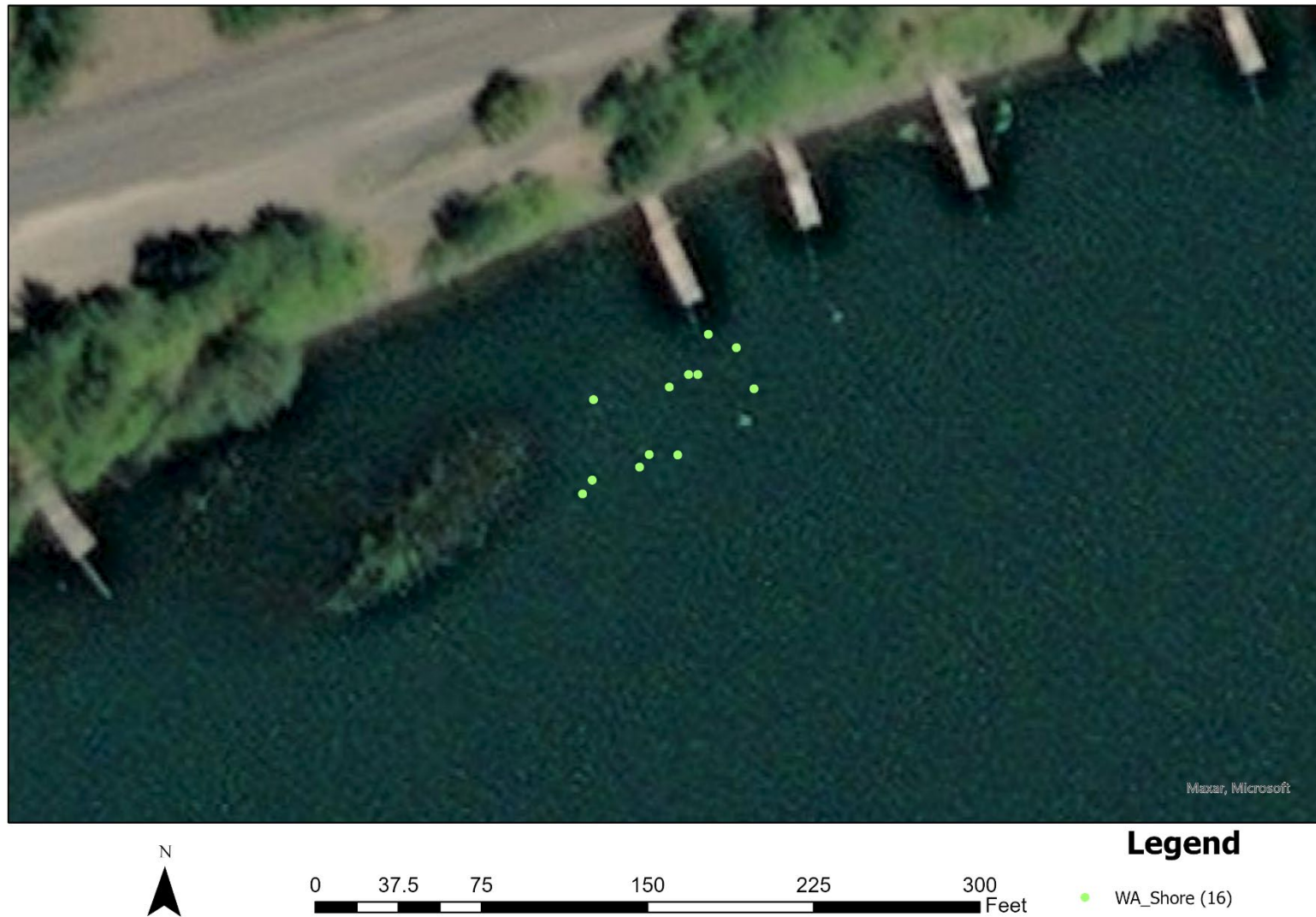
Map 2. Catch locations for smallmouth bass, Bradford Island (note: some points may not be visible because of overlapping coordinates)

Spring Bass 2022 Tissue Collection Area: Goose



Map 3. Catch locations for smallmouth bass, Goose Island (note: some points may not be visible because of overlapping coordinates)

Spring Bass 2022 Tissue Collection Area: WA_Shore



Map 4. Catch locations for smallmouth bass, Reference Area (note: some points may not be visible because of overlapping coordinates)

APPENDIX A: Field Notes

Date: 3/14/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

RAA EXCHANGES

Angling Start (hh:mm): 09:30

Vessel: Tactile

Angling End (hh:mm): 15:00

Crew: JW EC

Weather conditions: Overcast, calm

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tissue	N Brad										
2	NO	1234										
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 3/14/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Angling Start (hh:mm): 0930

Vessel: Skiff

Weather conditions: cloudy light E. wind

Angling End (hh:mm): 1510

Crew: DA, GH

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	Tissue	N. Brad	1258	41.6	45.64292	121.93907	SB	338	N	SB5001	608	Small Bass, Photo
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 03/15/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Vessel: ~~THOR~~ AAA Excursion

Crew: EC, JW, GH

Angling Start (hh:mm): 08:40

Angling End (hh:mm): 12:10

Weather conditions: OVERCAST, BASS; LIGHT WIND

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	NO	PASU										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 3/16/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Weather conditions: Overcast, slight breeze

Angling Start (hh:mm): 08:00

Angling End (hh:mm): 15:00

Vessel: AAAA Excuv

Crew: EC JW

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tissue	N Brad	10:10	32	45° 38.647	122° 56.042	SB	305	N	SB4001	0.40kg	390g
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 03/16/2022

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Angling Start (hh:mm): 07:47

Vessel: SKILLET

Angling End (hh:mm): 14:00

Crew: PH BH

Weather conditions: Overcast; Calm

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tissue	NBrad	0908	40.9	45.64291	121.93913	SC	175	N	SC5001	73	SWIM BAIT
2	Tissue	NBrad	1205	34.3	45.64288	121.93742	SB	355	N	SB5002	790	SWIM BAIT some Crayfish
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging **Collection Area:** N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore**Species:** Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;**Mass:** collected at end of day at CRRL**Comment/Observation:** tackle type, abnormalities, photo, ... as applicable

Date: 3/17/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Angling Start (hh:mm): 07:46

Vessel: AAA Excursion

Weather conditions: Cloudy, E wind turned to West w/ rain Angling End (hh:mm): 1400

Crew: JW, EC

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	NA											
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 03/17/2022

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Angling Start (hh:mm): 07:45

Vessel: SKILLET

Angling End (hh:mm): 14:00

Crew: PH, BH

Weather conditions: OVERCAST, LIGHT BREEZE

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	TISSUE	N BRAD	1231	31.9	45.64288	121.93922	SC	212	N	505002	175	
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tissue	N Brad	0957	64.9	45.64296	121.93921	SB	330	N	SB5003	562	
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore
Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;
Mass: collected at end of day at CRRL
Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 5/24/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

BLAT Low SW
DDM - 03H 07/21

Sheet 1 of 1

Vessel: H44 EX
Crew: EC JW

Weather conditions: RAIN!

Angling Start (hh:mm): 08:34
Angling End (hh:mm): 14:55

* Obstacles DEBRIS - MGN

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	Tissue	NBrad	09:07	38	45° 38' 57.8"	121° 46' 30.4"	SB	357	N	SB4002	659	bits of crayfish
2	"	"	09:57	34	45° 38' 58.4"	121° 46' 23.6"	SB	370	N	SB4003	771	
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

8:00 AM Low Tide
DDMM - 03/21

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Date: 3/22/2022

Angling Start (hh:mm): 07:34 AM - 9:30 Temp stop
10:30 - restart inside BRZ
Angling End (hh:mm): 15:00

Weather conditions: Clear

0.25 mm vacuum net

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	Tissue	N Brad	12:03	32	45° 38.572'	121° 56.242'	SB	383	N	SB4004	906	Small Crayfish Pairs
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	<u>No</u>	<u>182 LME</u>										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 3/23/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

*HAT Low for
DOM - 05H 07h24

Vessel: AAA EXCUR
Crew: EC & JW

Weather conditions: Overcast - light drizzle

Angling Start (hh:mm): 09:05
Angling End (hh:mm): 15:05

* DELETED DELETED MAN

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	Tissue	N Brad	10:36	36	45°38.655'	121°56.022'	SC	142	—	SC4001	38	
2	Tagging	N Brad	10:57	36	45°38.574'	121°56.217'	SB	336	—	J3HT-02	—	
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 03/25/2022

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Surface Temp: 41.6 °

Angling Start (hh:mm): 09:13

Vessel: SKULLER

Weather conditions: OVERCAST

Angling End (hh:mm): 13:01

Crew: JS, BH

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	TAGGED	N BRAD	10:40	35.8	45.64296	-121.93797	SB	371	—	JSATO1	—	
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Date: 03/24/22

Angling Start (hh:mm): 07:45
Angling End (hh:mm): 13:40

Weather conditions: Clear, windy

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	ND	PBH										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Surface water: 41.8° 0 12:00

Angling Start (hh:mm): 07:45

Vessel: SKILLET

Weather conditions: Clear, Windy

Angling End (hh:mm): 13:40

Crew: JMS, GSH

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	NO	PBSH										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 3-28-22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

*LAT LOW TID
DDM - 1st 07/27

Angling Start (hh:mm): 07:55

Vessel: AAA EXCURSION

Angling End (hh:mm): 12:40

Crew: Ed, Lance D

Weather conditions: clouds/wind

R Basses beginning now

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tag	N. Brad	9:43	27'	45.38574	121.56284	SB			55a+003		
2	--	Boat	11:45	-	-	-	-					
3	--	Wa Shore	12:05	-	-	-	STH	-	-			
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 3/28/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 7

Weather conditions: Overcast Windy

Angling Start (hh:mm): 07:55

Angling End (hh:mm): 12:30

Vessel: Skillet

Crew: JW JS

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1												
2	Angling	Time	-	BRZ	N Brad	07:55	11:30					
3			-	Boat	Rock	11:30	11:45					
4			-	Goose	Isl	11:45	12:30					
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Light Low Jan
DOM - Oct 07/21

Vessel: AAA excursions

Crew: LD, ED, JS

Angling Start (hh:mm): 08:01

Angling End (hh:mm): 15:00

Weather conditions: P/C

DEBRIS DEBRIS DEBRIS

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1		S. Brad	08:00 st 08:30 end									outside BRZ
2		S. Brad	08:50 st 09:04 end									outside BRZ
3	TAG	N. Brad	09:50 11:30	31'	45.38575	121.56254	SB			Recap		catch @ 10:07 release @ 10:27 S. Cascade Island
4		Rf target area	11:30 12:00									
5		N. Brad	12:15 15:00									
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 8/29/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

07:53-08:30
Lower Goose Isl

Sheet 1 of 1

Angling Start (hh:mm): 07:53

08:50-09:20
Lower Goose

Vessel: Skillet

Weather conditions: Sunny Patches, Breezy

Angling End (hh:mm): 15:00

09:50-11:30 - BRZ
11:30-12:00 - Ref Target Area

Crew: JW

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	(Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tissue	Goose	09:05	30	45.64320°	121.93001°	SB	374	Y	SB5004	713	crayfish parts
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 3/30/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Weather conditions: Windy/Cloudy

Angling Start (hh:mm): 08:05 - 11:00 BRZ

Angling End (hh:mm): 15:24

Collection Type

Collection Area

Time (24hr)

Depth (ft)

Latitude (DD)

Longitude (DD)

Species

TL (mm)

Stomach (Y/N)

Mass (g)

Comment/Observation

1	TAQ	6005E IS	14:51	41'	48° 36' 25"	121° 55' 765"	SMB	342	N	JSAT-DG	
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 3/30/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1Vessel: SKilletCrew: JWAngling Start (hh:mm): 07:55 - 10:50 - N BradAngling End (hh:mm): 11:00 - 1500 - GooseWeather conditions: Overcast, rainy

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tagging	N Brad	09:58	49	45,64429	121,93357	SB	422	—	JSAT04		
2	Tagging	Goose	11:42	41	45,64335	121,92976	SB	309	—	JSAT05		Free
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 3-31-22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Weather conditions: Calm, Windy

Angling Start (hh:mm): 07:55

11:35 ~ 13:30 00058

13:30 ~ 14:15 SB400

Angling End (hh:mm): 12:14:15

LAT 40N 118W 07/01

DOM - 08A

* O'Brien, Deborah

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tissue Angling	N Bradford	08:25	38'	45.3850	121.56.207	SB	326	N	SB4005	496	Swim bait
2	Tissue Angling	N Bradford	08:45	41'	45.38597	121.56.209	SB	295	N	SB4006	338	"
3	Tissue Angling	N Bradford	09:10	35'	45.38.573	121.56.211	SB	325	N	SB4007	495	"
4	Tissue Angling	N Bradford	09:56	35'	45.38.573	121.56.220	SB	310	N	SB4008	433	"
5	Tissue Angling	S Bradford	14:05	43'	45.38.438	121.56.198	SB	380	Y	SB4009	909	"
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 3/3/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1BLZ Good SBAD 13:30Vessel: SHADLEYCrew: JWAngling Start (hh:mm): 07:55 11:30Angling End (hh:mm): 18:35 13:30Weather conditions: Cool; WINDY; RAIN

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	Nb	FBAD										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 4-5-22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Weather conditions: Overcast, rainy, breezy

Angling Start (hh:mm): 08:00

Angling End (hh:mm): 15:36

Bait 600 15:00

Goose 15:10 - 15:36

Vessel: AAA Exc

Crew: EG, JW, LD

JK

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tissue	N. Brad	10:36	32	45°38.585'	121°56.243'	SB	310	N	SB4010	365	
2	Tissue	N. Brad	12:22	47	45°38.589'	121°56.280'	SC	200	N	SC4002	117	
3	Tissue	N. Brad	12:44	37	45°38.585'	121°56.268'	SB	280	N	SB4011	308	CRAYFISH PHOTOS
4	Tissue	N. Brad	14:45	36	45°38.586'	121°56.211'	SC	153	N	SC4003	43	
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Water Temp @ SURFACE @ 12:00 44.1 °C
Angling Start (hh:mm): 08:05
Angling End (hh:mm): 15:00

Vessel: SKELLEY
Crew: GH

Weather conditions: Overcast; Breezy

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	NO FISH											
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 4-06-22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Angling Start (hh:mm): 07:57 AM

Vessel: AAA EXCURSIONS

Angling End (hh:mm): 12:50 PM

Crew: LD, TG, JK, ED

Weather conditions: Sun, E Wind, 60°F

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	No Fish											
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 04/06/2022

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Angling Start (hh:mm): 08:00

Vessel: SKILLET

Angling End (hh:mm): 12:00

Crew: GH

Weather conditions: Clear, Breezy

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tissue	N BRAD	10:04	26.8	45.64282	-121.93913	SB	325	N	SB5005	543	SWIM BAIT
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 4-7-22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Skillet-JW
Angling 07:48-14:00
LAST LOW PN
DDM - GSH 07:42

Vessel: AAA Excursions
Crew: LD, ED

Angling Start (hh:mm): 07:50
Angling End (hh:mm): 14:00

Weather conditions: Sun, E. Wind 65°F

DDMM DDMM DDMM

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tissue	N. Bad	09:40	40.5	45.38.587	121.56.29	SB	333	N	SB4012	492	crayfish/st. contents less than 40g
2	Tissue	N. Bad	11:58	49.7	45.38.609	121.56.162	SB	290	N	SB4013	365	crayfish/st. contents less than 40g
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 07/07/2012

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Weather conditions: Sun, E Wind

Angling Start (hh:mm): 07:48

Vessel: SKULET

Angling End (hh:mm): 14:00

Crew: JW

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	<u>No</u>	<u>FRST</u>										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 4-08-22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

LAT LOW 34N
DOM - 60W 0721Sheet 1 of 1Vessel: AAA excursionsCrew: LD, ED, TCAngling Start (hh:mm): 08:02Angling End (hh:mm): 12:43Weather conditions: light rain, 50°F# Deeper Phoenix now

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tissue	N. Brad	10 ⁴¹	43	45.38.593	121.56.175	SB	290	N	SB4014	334	Crayfish less than 40g in stomach
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 4/8/22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Angling Start (hh:mm): 07:59

Vessel: Skillet

Angling End (hh:mm): 12:45

Crew: JW

Weather conditions: Overcast - very breezy

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	tissue	N. Brad	10:10	41	45.64318°	121.73729°	SB	358	Y	SB5006	634	
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 4-20-22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Angling Start (hh:mm): 08:42

Vessel: Skillet

Weather conditions: cloudy 50°F

Angling End (hh:mm): 15:45

Crew: LD, BE, JRK

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1		Goose Is.					CHK	hatchery yearling				start 8:42
2	Tissue	E. Brad	12:05	29	45.64125	121.9355	SMB	325	Nothing!	SB4015	507	end 11:42
3	Tissue	E. Brad	12:34	27	45.64181	121.93501	SMB	455	Nothing!	SB4016	1849	start 11:50
4	Tissue	E. BRAD	13:26	32	45.64112	121.93565	SMB	408	Partial Crayfish	SB4017	1240	end 15:45
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 4-21-22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 2
DMM - Geth 0761

Weather conditions: Cloudy 45°F

Angling Start (hh:mm): 8:20

Angling End (hh:mm): 14:00

Vessel: AAA excursions

Crew: LD, BE, JK, ED
captain

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1		Goose										8:20 start
2	TIS	E. Brad	9:28	31.7	45.38484	121.56118	SC	235	—	SC4004	163	9:22 end
3	TIS	E. Brad	9:33	27.2	45.38473	121.56135	SMB	332	N	SB4018	441	9:22 start
4	TIS	E. BRAD	9:45	44.6	45.38467	121.56134	SMB	330	AY	SB4019	485	Kept stomach contents likely too light at sample
5												end brad @ 10:00 am
6		WA. Shore										10:15 st.
7												11:00 end
8	TIS	E. Brad	11:18	43	45.38472	121.56123	SMB	336	N	SB4020	509	11:10 start
9	TIS	E. Brad	11:24	32	45.38479	121.56121	SMB	359	N	SB4021	730	crayfish in gut
10	TIS	E. Brad	11:42	41	45.38474	121.56120	SMB	310	N	SB4022	352	3 at once
11	TIS	E. Brad	11:44	41	45.38474	121.56120	SMB	337	N	SB4023	492	
12	TIS	E. Brad	11:45	41	45.38474	121.56120	SMB	368	N	SB4024	828	
13	TIS	E. Brad	11:56	47	45.38473	121.56113	SMB	330	N	SB4025	487	
14	TIS	E. BRAD	12:08	47	45.38473	121.56113	SMB	318	N	SB4026	489	
15	TIS	E. BRAD	12:13	42	45.38470	121.56128	SMB	330	N	SB4027	441	

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

10 SMB

Date: 4-21-22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 2 of 2

LAT Long Elev
DDMM - GCH 07/21

Vessel: AAA excursions

Crew: LD, BE, JK, ED

Angling Start (hh:mm):

Angling End (hh:mm):

Weather conditions: cloudy 45°F

Bass, Decimate non

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	TIS	E. BRAD	12:17	42	45.38470	121.56123	SMB	376	N	SB4028	834	
2	TIS	E. BRAD	12:18	42	45.38470	121.56123	SMB	386	N	SB4029	711	
3	TIS	E. BRAD	12:19	42	45.38470	121.56123	SMB	330	N	SB4030	507	
4	TIS	E. BRAD	12:20	42	45.38470	121.56123	SMB	312	N	SB4031	419	
5	TIS	E. BRAD	12:21	42	45.38470	121.56123	SMB	372	N	SB4032	720	
6	TIS	E. BRAD	12:22	42	45.38470	121.56123	SMB	348	N	SB4033	500	
7	TIS	E. BRAD	12:23	42	45.38470	121.56123	SMB	330	N	SB4034	468	
8	TIS	E. BRAD	12:24	42	45.38470	121.56123	SMB	335	N	SB4035	548	
9	TIS	E. BRAD	12:25	42	45.38470	121.56123	SMB	451	N	SB4036	1114	
10	TIS	E. BRAD	12:35	42	45.38470	121.56123	SMB	350	N	SB4037	556	
11	TIS	E. BRAD	12:37	42	45.38470	121.56123	SMB	330	N	SB4038	474	
12	TIS	E. BRAD	12:40	42	45.38470	121.56123	SMB	355	N	SB4039	691	12:55 end @ E. Brad
13	—	Goose										14:00 end
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

22 SMB on 4-21-22
1 SC

Date: 4-22-22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Angling Start (hh:mm): 08:40

Vessel: skillet

Angling End (hh:mm): 13:05

Crew: LD, BE

Weather conditions: P/C 50's

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	—	WA Shore	—	—	—	—	—	—	—	—	—	8:40 st 10:30 end
2	—	Goose	—	—	—	—	—	—	—	—	—	10:35 st 13:05 end
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 4-25-22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1Weather conditions: Rainy / 55°Angling Start (hh:mm): 08:05
Angling End (hh:mm): 14:40Vessel: AAA exl
Crew: LD, BE, SK, ED
↓
captain

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	—	Goose	8:17	—	—	—	NPM	545	—	—	—	st g ⁰⁵ end 11:35
2	—	WA Shore	—	—	—	—	—	—	—	—	—	st 11:40 end 12:40
3	—	Goose	—	—	—	—	—	—	—	—	—	st 12:42 end 14:40
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 05/04/2022

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1WATER Temp @ 12:00 @ SURFACE 51 FWA GOOSEAngling Start (hh:mm): 11:00 12:20Vessel: SKULLERWeather conditions: CLDY Angling End (hh:mm): 11:57 13:23Crew: PH, GH

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	Tissue	GOOSE	12:47	39	45.64562	-121.92538	SB	277	N	SB5007	303	BWP74
2	—	—	—	—	—	—	NPM	555	—	—	—	
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 05/12/2012

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

Water Sample Temp. 53 °F

E Bath

Angling Start (hh:mm): 08:27

Vessel: Seagull

Weather conditions: overcast / rain

Angling End (hh:mm): 12:05

Crew: JS, PH, OH

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tagging	E Brad	09:52	14.9	45.64493	-121.9252	SB	291	-	JSAT17		
2	Tagging	E Brad	10:32	27.5	45.64147	-121.93526	SB	294	-	JSAT18		
3	Tagging	E Brad	10:46	18.0	45.64113	-121.93598	SB	435	-	JSAT19		
4												
5	Boat	Rock	12:15	12:30								
6												
7	N. Shore		12:30	13:10								
8												
9	Goose	Island	13:15	13:15								
10	Tagging	Goose	13:12	37	45.64637	-121.92404	SB	316	-	JSAT20		
11	Tagging	Goose	13:29	45	45.64561	-121.92552	SB	352	-	JSAT21		
12	Tagging	Goose	14:12	24	45.64567	-121.92515	SB	293	-	JSAT22		
13	Tagging	Goose	14:45	25	45.64518	-121.92603	SB	295	-	JSAT23		
14	Tagging	Goose	14:54	21	45.64485	-121.92650	SB	238	-	JSAT24		
15	Tagging	Goose	15:02	23	45.64492	-121.92714	SB	247	-	JSAT25		

Collection Type: Tissue; Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

→ Tagging Goose 15:21 20 45.64470 -121.92673 SB 324 JSAT26

Date: 05/14/2022

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 2

Angling Start (hh:mm): 07:48

Vessel: AAA Excursions

Weather conditions: Overcast

Angling End (hh:mm): 13:35

Crew: EC, BE, GH

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tissue	WA shore	8:21	22	45.39146	121.55088	SMB	315	N	SB4040	425	New upstream area
2	Tissue	WA shore	8:58	28	45.39148	121.55077	SMB	240	N	SB4041	180	1 crayfish
3	Tissue	WA shore	9:06	21	45.39146	121.55081	SMB	335	N	SB4042	585	some fish parts
4	Tissue	WA shore	9:10	26	45.39145	121.55085	SMB	310	N	SB4043	415	empty
5	Tissue	WA shore	9:10	26	45.39145	121.55085	SMB	345	N	SB4044	610	empty
6	Tissue	WA shore	9:22	23	45.39144	121.55085	SMB	338	N	SB4045	515	empty
7	Tissue	WA shore	9:34	18	45.39145	121.55085	SMB	300	N	SB4046	355	fish parts
8	Tissue	WA shore	9:35	14	45.39145	121.55085	SMB	330	N	SB4047	481	fish parts
9	Tissue	WA shore	9:42	15	45.39144	121.55085	SMB	280	N	SB4048	292	empty
10	Tissue	WA shore	9:55	6.4	45.39138	121.55082	SMB	265	N	SB4049	227	crayfish parts
11	Tissue	WA shore	9:59	6.6	45.39137	121.55085	SMB	285	N	SB4050	287	empty
12	Tissue	WA shore	10:02	6.6	45.39137	121.55085	SMB	285	N	SB4051	312	empty
13	Tissue	WA shore	10:07	6.6	45.39137	121.55085	SMB	318	N	SB4052	399	empty
14	Tissue	WA shore	10:15	13	45.39140	121.55083	SMB	315	N	SB4053	374	chumk cry in belly
15	Tissue	WA shore	10:18	10	45.39139	121.55082	SMB	260	N	SB4054	306	empty

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 5-19-22

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

LAT 46N 5W
DDM - GTH 07121

Angling Start (hh:mm): 07:48 → 12:00 WA, Shore
START @ GOOSE: 12:05 → 13:25
Angling End (hh:mm): 13:35
start WA shore: 13:26 → end: 13:35

Vessel: AAA Excursion
Crew: EC, BE, GH

Weather conditions: Windy, Rainy

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tissue	WA Shore	10:22	11	45.39140	121.55086	GMB	260	N	SB4055	211	empty
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 05/20/2022

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

*LAT LON SW
DOM - 6:44 07:21

Sheet 1 of 1

Angling Start (hh:mm): 09:55

Vessel: ADA EXCURSION

Weather conditions: Wsdy

Angling End (hh:mm): 15:08

Crew: EC, TK, LA, JS, OH

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	Tagging	S. Brad	08:17	15	45 38.432	121 56.264	SB	263	-	JSAT27	-	
2	Tagging	S. Brad	08:51	40	45 38.440	121 56.225	SB	265	-	JSat28	-	Possible Air bladder issue
3	Tagging	S. Brad	09:25	20	45 38.453	121 56.174	SB	309	-	JSAT 29	-	
4	Tagging	S. Brad	10:24	36	45 38.442	121 56.212	SB	320	-	JSAT 30	-	
5	Tagging	S. Brad	10:56	39	45 38.456	121 56.156	SB	289	-	JSAT 31	-	
6	Tagging	S. Brad	11:30	38	45 38.448	121 56.173	SB	337	-	JSAT32	-	
7	Tagging	S. Brad	11:40	25	45 38.454	121 56.176	SB	299	-	JSAT33	-	
8	Tagging	S. Brad	11:44	38	45 38.450	121 56.177	SB	247	-	JSAT34	-	
9	Tagging	S. Brad	11:55	27	45 38.456	121 56.169	SB	345	-	JSAT35	-	
10	Tagging	S. Brad	11:58	40	45 38.449	121 56.179	SB	218	-	JSAT36	-	
11	Tagging	S. Brad	13:14	37	45 38.442	121 56.232	SB	248	-	JSAT37	-	
12	Tagging	S. Brad	13:24	36	45 38.443	121 56.229	SB	324	-	JSAT38	-	
13	Tagging	S. Brad	13:34	37	45 38.444	121 56.226	SB	228	-	JSAT39	-	
14	Tagging	S. Brad	14:58	34	45 38.444	121 56.223	SB	314	-	JSat 40	-	
15	Tagging	S. Brad	15:08	26	45 38.444	121 56.231	SB	269	-	JSat 41	-	

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 05/24/2022

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

GOOSE

* LAT LOW IN
DDM - (5th 0721)

Sheet 1 of 1

Angling Start (hh:mm): 07:50

Vessel: AAA EXCURSION

Weather conditions: Clear; Warm

Angling End (hh:mm): 13:50

Crew: EC, TK, HH

* DELETES OBSERVED NPM

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	TISSUE	GOOSE	07:50	23.2	45 38.758	121 55.469	SB	310	N	SB4056	385	CRAYFISH; STEELHEAD
2	TISSUE	GOOSE	18:27	19.0	45 38.765	121 55.461	SB	250	N	SB4057	178	EMPTY
3	TISSUE	GOOSE	08:36	31.0	45 38.760	121 55.473	SB	251	N	SB4058	179	EMPTY
4	TISSUE	GOOSE	09:07	19.0	45 38.778	121 55.431	SB	275	N	SB4059	272	CRAYFISH PARTS
5	TISSUE	GOOSE	10:28	18.0	45 38.700	121 55.570	SB	220	N	SB4060	141	SALMONID
6	TISSUE	GOOSE	10:36	23.8	45 38.699	121 55.577	SB	318	N	SB4061	420	CRAYFISH PARTS
7	TISSUE	GOOSE	11:17	44.0	45 38.705	121 55.590	SB	290	Y	SB4062	293	CRAYFISH
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 05/27/2022

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

Sheet 1 of 1

GOOSE

Angling Start (hh:mm): 07:50

Vessel: AAA Excavator

Angling End (hh:mm): 11:50

Crew: EC, GA

Weather conditions: RAINY; BREEZY

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	No	F-TAH										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	ND	FSH										
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore
Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;
Mass: collected at end of day at CRRL
Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 06/28/2022

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

GOOSE

Sheet 1 of 1

Vessel: COHO
Crew: LD, BE, BH

Angling Start (hh:mm): 06:50
Angling End (hh:mm): 10:50

Weather conditions: OVERCAST; BARELY

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample ID	Mass (g)	Comment/Observation
1	TISSUE	GOOSE	07:08	35.6	45.64629	-121.92405	SB	250	N	SB4063	193	GRAYFISH
2	TISSUE	GOOSE	08:55	13.5	45.64280	-121.93053	SB	249	N	SB4064	189	SALMONID
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	TISSUE	GOOSE	13:22	24.0	45.64664	-121.92346	SB	338	N	SB4065	539	CRAYFISH PARTS
2	TISSUE	GOOSE	14:25	20.9	45.64397	-121.92889	SB	250	N	SB4066	201	CRAYFISH / FISH PARTS
3	TISSUE	GOOSE	15:03	22.6	45.64309	-121.93004	SB	228	N	SB4067	155	CRAYFISH PARTS
4	TISSUE	GOOSE	15:13	13.6	45.64294	-121.93030	SB	337	N	SB4068	531	2 SMALL CRAYFISH
5	TISSUE	GOOSE	15:26	25.7	45.64301	-121.93040	SB	285	N	SB4069	310	CRAYFISH PARTS
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore
Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pike/minnow, NPM; Steelhead, STH;
Mass: collected at end of day at CRRL
Comment/Observation: tackle type, abnormalities, photo, ... as applicable

Date: 07/12/2012

USGS CRRL and USACE Project: Bradford Island River OU Bass Sampling

GOOSE

GOOSE

Sheet 1 of 1

Vessel: CORO

Crew: JK, GH

Angling Start (hh:mm): 10:10

Angling End (hh:mm): 11:40

Weather conditions: CLEAR; LIGHT WINDS

Weather conditions:

Record	Collection Type	Collection Area	Time (24hr)	Depth (ft)	Latitude (DD)	Longitude (DD)	Species	TL (mm)	Stomach (Y/N)	Sample_ID	Mass (g)	Comment/Observation
1	TISSUE	GOOSE	10:31	16.4	45.64294	-121.93018	SB	237	N	SB4070	172	FISH PARTS
2	TISSUE	GOOSE	10:42	17.4	45.64294	-121.93035	SB	241	N	SB4071	175	EMPTY
3	TISSUE	GOOSE	13:40	20.8	45.64304	-121.93005	SB	309	N	SB4072	395	Fish + Crayfish Parts
4	TISSUE	GOOSE	14:15	24.5	45.64302	-121.93024	SB	312	N	SB4073	351	EMPTY
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												

Collection Type: Tissue, Tagging Collection Area: N Brad, S Brad, E Brad, Cascade, Goose, Boat R, WA Shore

Species: Smallmouth bass, SB; Crayfish, CF; sculpins, SC; Northern Pikeminnow, NPM; Steelhead, STH;

Mass: collected at end of day at CRRL

Comment/Observation: tackle type, abnormalities, photo, ... as applicable

APPENDIX B: Chain of Custody Forms

Chain of Custody Record--US Army Corps of Engineers

Project: Inwood Island Spring Fish Tissue Location: Cascade Locks, Oregon Lab: Tissue Laboratory (PFF Prime Contract) POC: Tim Winters (PFF) Phone No.: 503-324-3100 Sampling Team: USGS Contract No.: 1 of 1 Report Results To: Karen Kerns Phone No.: 503-324-3434		Analytical Method and Preparation/Extraction Additional Lab Information: Additional Cleanup Steps: (see Lab Order) Sample Specific Notes:							
Sample Identification	Sample Date (2012)	Sample Time	Matrix	Sample Size (g)	Prep. Code	Total Lipids (Bligh-Dyer)	PCB Congeners (1668)	Mercury (7412A)	Organochlorine Pesticides (EPA 8081)
* 084016	4/20/2012	12:18	Tissue	avg	1	X	X	X	X
* 084017	4/20/2012	12:26	Tissue	avg	1	X	X	X	X
* 084018	4/21/2012	9:31	Tissue	avg	1	X	X	X	X
* 084019	4/21/2012	9:41	Tissue	avg	1	X	X	X	X
* 084020	4/21/2012	11:18	Tissue	avg	1	X	X	X	X
* 084021	4/21/2012	11:24	Tissue	avg	1	X	X	X	X
* 084022	4/21/2012	11:42	Tissue	avg	1	X	X	X	X
* 084023	4/21/2012	11:46	Tissue	avg	1	X	X	X	X
* 084024	4/21/2012	11:46	Tissue	avg	1	X	X	X	X
* 084024 + FO	4/21/2012	11:46	Tissue	avg	1	X	X	X	X
* 084025	4/21/2012	11:54	Tissue	avg	1	X	X	X	X
* 084026	4/21/2012	11:58	Tissue	avg	1	X	X	X	X

FEDERAL AID Tracking Number:
Provisional Hazard Identification:
 Contaminant(s) identified and concentrations - PCBs, Mercury
Special Instructions/ QC Requirements & Comments:
 See Lab Order

Sample Disposal Options:
 Return To Donor ☐ ☒ Destroy By Lab ☐ Active For _____ Months

Requested By: (Signature) Organization: USACE Date/Time: 4/24/12 1:10 Received By:	Requested By: (Signature) Organization: USACE Date/Time: 4/24/12 1:10 Received By:
--	--

Chain of Custody Record--US Army Corps of Engineers


[illegible]

Chain of Custody Record--US Army Corps of Engineers

Project: Inland Island Spring Fish House Location: Cascade Locks, Oregon Lab: Eurofins Lancaster (PFT more context) POC: Tim Wirth (PFT) Phone No.: 503-324-3330 Sampling Team: USGS COOPER No.: 1055 Report Results To: Foster Kerns Phone No.: 206-764-3074		Analytical Method and Preparation/Extraction Total Lipids (Bligh-Dyer) PCB Congeners (1668) Mercury (7471A) Organochlorine Pesticides (EPA 8081)		of 3 COCs Additional Lab Instructions: Additional Cleanup Steps: See this order.																																																																	
Sample Identification <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Sample Date (2022)</th> <th>Sample Time</th> <th>Matrix</th> <th>Conc. Method</th> <th># of Cans</th> </tr> </thead> <tbody> <tr> <td>SB4007</td> <td>5/24/2022</td> <td>8:27</td> <td>Tissue</td> <td>avg</td> <td>1</td> </tr> <tr> <td>SB4008</td> <td>5/24/2022</td> <td>8:30</td> <td>Tissue</td> <td>avg</td> <td>1</td> </tr> <tr> <td>SB4009</td> <td>5/24/2022</td> <td>9:07</td> <td>Tissue</td> <td>avg</td> <td>1</td> </tr> <tr> <td>SB4010</td> <td>5/24/2022</td> <td>10:28</td> <td>Tissue</td> <td>avg</td> <td>1</td> </tr> <tr> <td>SB4011</td> <td>5/24/2022</td> <td>10:36</td> <td>Tissue</td> <td>avg</td> <td>1</td> </tr> <tr> <td>SB4012</td> <td>5/24/2022</td> <td>11:17</td> <td>Tissue</td> <td>avg</td> <td>1</td> </tr> <tr> <td>SB4013</td> <td>5/24/2022</td> <td>11:08</td> <td>Tissue</td> <td>avg</td> <td>1</td> </tr> <tr> <td>SB4014</td> <td>5/24/2022</td> <td>9:07</td> <td>Tissue</td> <td>avg</td> <td>1</td> </tr> <tr> <td>SB4015</td> <td>5/24/2022</td> <td>8:55</td> <td>Tissue</td> <td>avg</td> <td>1</td> </tr> <tr> <td>SB4016</td> <td>5/24/2022</td> <td>8:25</td> <td>Tissue</td> <td>avg</td> <td>1</td> </tr> </tbody> </table>		Sample ID	Sample Date (2022)	Sample Time	Matrix	Conc. Method	# of Cans	SB4007	5/24/2022	8:27	Tissue	avg	1	SB4008	5/24/2022	8:30	Tissue	avg	1	SB4009	5/24/2022	9:07	Tissue	avg	1	SB4010	5/24/2022	10:28	Tissue	avg	1	SB4011	5/24/2022	10:36	Tissue	avg	1	SB4012	5/24/2022	11:17	Tissue	avg	1	SB4013	5/24/2022	11:08	Tissue	avg	1	SB4014	5/24/2022	9:07	Tissue	avg	1	SB4015	5/24/2022	8:55	Tissue	avg	1	SB4016	5/24/2022	8:25	Tissue	avg	1	Sample Disposal Options: <input type="checkbox"/> Return To Site <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive For _____ Months	
Sample ID	Sample Date (2022)	Sample Time	Matrix	Conc. Method	# of Cans																																																																
SB4007	5/24/2022	8:27	Tissue	avg	1																																																																
SB4008	5/24/2022	8:30	Tissue	avg	1																																																																
SB4009	5/24/2022	9:07	Tissue	avg	1																																																																
SB4010	5/24/2022	10:28	Tissue	avg	1																																																																
SB4011	5/24/2022	10:36	Tissue	avg	1																																																																
SB4012	5/24/2022	11:17	Tissue	avg	1																																																																
SB4013	5/24/2022	11:08	Tissue	avg	1																																																																
SB4014	5/24/2022	9:07	Tissue	avg	1																																																																
SB4015	5/24/2022	8:55	Tissue	avg	1																																																																
SB4016	5/24/2022	8:25	Tissue	avg	1																																																																
Requester Information Requested By: [Signature] Organization: USACE Date/Time: 7/1/22 14:00 Received By: [Signature] Date/Time: 7/1/22 14:00		Operator Information Operator: [Signature] Date/Time: 7/1/22 14:00																																																																			

Project: Bradford Island Spring Fish Tissue Location: Cascade Locks, Oregon Lab: Eurofins Lancaster (EMT Prime Contract) POC: Tim Witzak (EMT) Phone No.: 847-324-3120 Sampling Team: USGS COOLER No.: 1 of 1 Repeat Results To: Kristin Kerns Phone No.: 206-764-3474				Analytical Method and Preparation/Extraction Total Lipids (Bligh-Dyer) <input checked="" type="checkbox"/> PCB Congeners (1668) <input checked="" type="checkbox"/> Mercury (7471A) <input checked="" type="checkbox"/> Organochlorine Pesticides (EPA 8061) <input checked="" type="checkbox"/>				Additional Lab Instructions Additional Cleanup Step See task order Sample Specific Notes			
Sample Identification		Sample Date (2022)	Sample Time	Matrix	Collect Method	# of Cans					
SB4027		4/21/2022	12:13	Tissue	avg/ing	1	X	X	X	X	
SB4028		4/21/2022	12:17	Tissue	avg/ing	1	X	X	X	X	
SB4029		4/21/2022	12:18	Tissue	avg/ing	1	X	X	X	X	
SB4030		4/21/2022	12:19	Tissue	avg/ing	1	X	X	X	X	
SB4031		4/21/2022	12:20	Tissue	avg/ing	1	X	X	X	X	
SB4032		4/21/2022	12:21	Tissue	avg/ing	1	X	X	X	X	
SB4033		4/21/2022	12:22	Tissue	avg/ing	1	X	X	X	X	
SB4034		4/21/2022	12:23	Tissue	avg/ing	1	X	X	X	X	
SB4034 - FD		4/21/2022	12:23	Tissue	avg/ing	1	X	X	X	X	
SB4034 - MWSGD		4/21/2022	12:23	Tissue	avg/ing	1	X	X	X	X	
SB4035		4/21/2022	12:24	Tissue	avg/ing	1	X	X	X	X	
SB4036		4/21/2022	12:25	Tissue	avg/ing	1	X	X	X	X	

FEDEX Airbill Tracking Number: Possible Hazard Identification: Common environmental contaminants and concentrations - PCBs, Mercury Special Instructions/QC Requirements & Comments: See task order				Sample Disposal Options: <input type="checkbox"/> Return To Site <input checked="" type="checkbox"/> Disposed By Lab <input type="checkbox"/> Active For			
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Requisitioned by:  Requisitioned by: Organization: USACE Date/Time: 7/17/22 1300 Received by: Organization: USACE Date/Time: 7/17/22 1300	Requisitioned by: Organization: USACE Date/Time: 7/17/22 1300 Received by: Organization: USACE Date/Time: 7/17/22 1300
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Chain of Custody Record--US Army Corps of Engineers

Project: Portland Island Spring Fish Tissue Location: Cascade Locks, Oregon Lab: Evergreen Laboratory (EPA/PAHs Contract) MOU: TPA/MWRM (EPA) Phone No.: 503-324-3300 Sampling Team: USGS COOLAR No.: 06 Report Number: TPA-PAHs-06 Phone No.: 206-754-3474				Analytical Method and Preparation/Extraction Total Lipids (Bligh-Dyer) PCB Congeners (1668) Mercury (7471A) Organochlorine Pesticides (EPA 8081)				Additional Cleanup Steps: (See task order) Sample Specific Notes:	
Sample Identification	Sample Date (2022)	Sample Time	Matrix	Conc. Method	# of Cans				
* SBA006	1/11/2022	9:56	Tissue	avg/1g	1	X	X	X	
* SBA009	1/11/2022	14:01	Tissue	avg/1g	1	X	X	X	
* SBA010	4/9/2022	10:36	Tissue	avg/1g	1	X	X	X	
* SBA011	4/9/2022	12:44	Tissue	avg/1g	1	X	X	X	
* SBA005	4/9/2022	10:04	Tissue	avg/1g	1	X	X	X	
* SBA012	4/7/2022	9:40	Tissue	avg/1g	1	X	X	X	
* SBA013	4/7/2022	11:58	Tissue	avg/1g	1	X	X	X	
* SBA014	4/8/2022	10:41	Tissue	avg/1g	1	X	X	X	
* SBA006	4/8/2022	10:10	Tissue	avg/1g	1	X	X	X	
* SBA006 - FD	4/8/2022	10:10	Tissue	avg/1g	1	X	X	X	
* SBA006 - MS/MSD	4/8/2022	10:10	Tissue	avg/1g	1	X	X	X	
* SBA015	4/20/2022	12:05	Tissue	avg/1g	1	X	X	X	

FEDERATION Tracking Number: Common environmental contaminants and concentrations: PCBs, Mercury Special Instructions (PC Requirements & Comments): per EPA 821		Sample Disposal Options: <input type="checkbox"/> Return To Site <input checked="" type="checkbox"/> Disposed By Lab <input type="checkbox"/> Archive For	
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Prepared By: [Signature] Organization: USACE Date/Time: 7/11/22 15:00	Received By: [Signature] Organization: USACE Date/Time: 7/11/22 15:00
Prepared By: [Signature] Organization: USACE Date/Time: 7/11/22 15:00	Received By: [Signature] Organization: USACE Date/Time: 7/11/22 15:00

Record--US Army Corps of Engineers

Project: Ground Sited Storm Fish Tissue
 Location: Canada Lake, Oregon
 Lab: Everitt Laboratory (SRT Storm Center)
 POC: Tim Winters (DMT)
 Phone No.: 847-324-3120
 Sampling Team: USACE
 COPIER No.: 01
 Report Results To: Kristin Kerns
 Phone No.: 206-764-3474

Sample Identification

Sample ID	Sample Date (2022)	Sample Time	Matrix	Calibration Method	# of Cans	Total Lipids (Bigh-Oyer)	PCB Congeners (1668)	Mercury (7471A)	Organochlorine Pesticides (EPA 8081)	Additional Cleanup Steps	Sample Specific Notes
* SB4037	4/21/2022	12:35	Tissue	avg/ing	1	X	X	X	X		
* SB4038	4/21/2022	12:37	Tissue	avg/ing	1	X	X	X	X		
* SB4039	4/21/2022	12:40	Tissue	avg/ing	1	X	X	X	X		
* SB4040	5/4/2022	12:47	Tissue	avg/ing	1	X	X	X	X		
* SB4041	5/19/2022	8:21	Tissue	avg/ing	1	X	X	X	X		
* SB4042	5/19/2022	8:58	Tissue	avg/ing	1	X	X	X	X		
* SB4043	5/19/2022	9:06	Tissue	avg/ing	1	X	X	X	X		
* SB4043 - FD	5/19/2022	9:10	Tissue	avg/ing	1	X	X	X	X		
* SB4044	5/19/2022	9:10	Tissue	avg/ing	1	X	X	X	X		
* SB4045	5/19/2022	9:22	Tissue	avg/ing	1	X	X	X	X		
* SB4046	5/19/2022	9:34	Tissue	avg/ing	1	X	X	X	X		

FEDER Airbill Tracking Number:

Assessable Hazard Identification:
 Common environmental contaminants and concentrations - PCBs, Mercury
 Special Instructions/QC Requirements & Comments:
 Site task order

Sample Disposal Options:
☐ Return to SRA
☒ Disposed by Lab
☐ Active for
 Months

Relinquished By:	Organization: USACE	Date/Time: 7/15/22 1:30	Received By:	Organization:	Date/Time:
Relinquished By:	Organization:	Date/Time:	Received By:	Organization:	Date/Time:
Relinquished By:	Organization:	Date/Time:	Received By:	Organization:	Date/Time:

Chain of Custody Record--US Army Corps of Engineers

Project: Bayport Island Spring for Tissue Location: Curlew Lake, Oregon Lab: Bayport Island (BPT) Spring (G0400) POC: Tim Rouse (G07) Phone No.: 503-324-3120 Sampling Team: USGS COOLIR No.: 98 Report Results for: Keston Farms Phone No.: 1-202-764-2414				Analytical Method and Preparation/Extraction Total Lipids (Bligh-Dyer) PCB Congeners (1668) Mercury (7471A) Organochlorine Pesticides (EPA 8081)				Additional Chain of Custody Additional Lab Information Sample Specifics: None	
Sample Identification	Sample Date (2022)	Sample Time	Matrix	Conc. Method	# of				
f 504001 504002 504003 504004 504005 504006 504007 504008 504009 504010 504011 504012 504013 504014 504015 504016 504017 504018 504019 504020 504021 504022 504023 504024 504025 504026 504027 504028 504029 504030 504031 504032 504033 504034 504035 504036 504037 504038 504039 504040 504041 504042 504043 504044 504045 504046 504047 504048 504049 504050 504051 504052 504053 504054 504055 504056 504057 504058 504059 504060 504061 504062 504063 504064 504065 504066 504067 504068 504069 504070 504071 504072 504073 504074 504075 504076 504077 504078 504079 504080 504081 504082 504083 504084 504085 504086 504087 504088 504089 504090 504091 504092 504093 504094 504095 504096 504097 504098 504099 504100 504101 504102 504103 504104 504105 504106 504107 504108 504109 504110 504111 504112 504113 504114 504115 504116 504117 504118 504119 504120 504121 504122 504123 504124 504125 504126 504127 504128 504129 504130 504131 504132 504133 504134 504135 504136 504137 504138 504139 504140 504141 504142 504143 504144 504145 504146 504147 504148 504149 504150 504151 504152 504153 504154 504155 504156 504157 504158 504159 504160 504161 504162 504163 504164 504165 504166 504167 504168 504169 504170 504171 504172 504173 504174 504175 504176 504177 504178 504179 504180 504181 504182 504183 504184 504185 504186 504187 504188 504189 504190 504191 504192 504193 504194 504195 504196 504197 504198 504199 504200 504201 504202 504203 504204 504205 504206 504207 504208 504209 504210 504211 504212 504213 504214 504215 504216 504217 504218 504219 504220 504221 504222 504223 504224 504225 504226 504227 504228 504229 504230 504231 504232 504233 504234 504235 504236 504237 504238 504239 504240 504241 504242 504243 504244 504245 504246 504247 504248 504249 504250 504251 504252 504253 504254 504255 504256 504257 504258 504259 504260 504261 504262 504263 504264 504265 504266 504267 504268 504269 504270 504271 504272 504273 504274 504275 504276 504277 504278 504279 504280 504281 504282 504283 504284 504285 504286 504287 504288 504289 504290 504291 504292 504293 504294 504295 504296 504297 504298 504299 504300 504301 504302 504303 504304 504305 504306 504307 504308 504309 504310 504311 504312 504313 504314 504315 504316 504317 504318 504319 504320 504321 504322 504323 504324 504325 504326 504327 504328 504329 504330 504331 504332 504333 504334 504335 504336 504337 504338 504339 504340 504341 504342 504343 504344 504345 504346 504347 504348 504349 504350 504351 504352 504353 504354 504355 504356 504357 504358 504359 504360 504361 504362 504363 504364 504365 504366 504367 504368 504369 504370 504371 504372 504373 504374 504375 504376 504377 504378 504379 504380 504381 504382 504383 504384 504385 504386 504387 504388 504389 504390 504391 504392 504393 504394 504395 504396 504397 504398 504399 504400 504401 504402 504403 504404 504405 504406 504407 504408 504409 504410 504411 504412 504413 504414 504415 504416 504417 504418 504419 504420 504421 504422 504423 504424 504425 504426 504427 504428 504429 504430 504431 504432 504433 504434 504435 504436 504437 504438 504439 504440 504441 504442 504443 504444 504445 504446 504447 504448 504449 504450 504451 504452 504453 504454 504455 504456 504457 504458 504459 504460 504461 504462 504463 504464 504465 504466 504467 504468 504469 504470 504471 504472 504473 504474 504475 504476 504477 504478 504479 504480 504481 504482 504483 504484 504485 504486 504487 504488 504489 504490 504491 504492 504493 504494 504495 504496 504497 504498 504499 504500 504501 504502 504503 504504 504505 504506 504507 504508 504509 504510 504511 504512 504513 504514 504515 504516 504517 504518 504519 504520 504521 504522 504523 504524 504525 504526 504527 504528 504529 504530 504531 504532 504533 504534 504535 504536 504537 504538 504539 504540 504541 504542 504543 504544 504545 504546 504547 504548 504549 504550 504551 504552 504553 504554 504555 504556 504557 504558 504559 504560 504561 504562 504563 504564 504565 504566 504567 504568 504569 504570 504571 504572 504573 504574 504575 504576 504577 504578 504579 504580 504581 504582 504583 504584 504585 504586 504587 504588 504589 504590 504591 504592 504593 504594 504595 504596 504597 504598 504599 504600 504601 504602 504603 504604 504605 504606 504607 504608 504609 504610 504611 504612 504613 504614 504615 504616 504617 504618 504619 504620 504621 504622 504623 504624 504625 504626 504627 504628 504629 504630 504631 504632 504633 504634 504635 504636 504637 504638 504639 504640 504641 504642 504643 504644 504645 504646 504647 504648 504649 504650 504651 504652 504653 504654 504655 504656 504657 504658 504659 504660 504661 504662 504663 504664 504665 504666 504667 504668 504669 504670 504671 504672 504673 504674 504675 504676 504677 504678 504679 504680 504681 504682 504683 504684 504685 504686 504687 504688 504689 504690 504691 504692 504693 504694 504695 504696 504697 504698 504699 504700 504701 504702 504703 504704 504705 504706 504707 504708 504709 504710 504711 504712 504713 504714 504715 504716 504717 504718 504719 504720 504721 504722 504723 504724 504725 504726 504727 504728 504729 504730 504731 504732 504733 504734 504735 504736 504737 504738 504739 504740 504741 504742 504743 504744 504745 504746 504747 504748 504749 504750 504751 504752 504753 504754 504755 504756 504757 504758 504759 504760 504761 504762 504763 504764 504765 504766 504767 504768 504769 504770 504771 504772 504773 504774 504775 504776 504777 504778 504779 504780 504781 504782 504783 504784 504785 504786 504787 504788 504789 504790 504791 504792 504793 504794 504795 504796 504797 504798 504799 504800 504801 504802 504803 504804 504805 504806 504807 504808 504809 504810 504811 504812 504813 504814 504815 504816 504817 504818 504819 504820 504821 504822 504823 504824 504825 504826 504827 504828 504829 504830 504831 504832 504833 504834 504835 504836 504837 504838 504839 504840 504841 504842 504843 504844 504845 504846 504847 504848 504849 504850 504851 504852 504853 504854 504855 504856 504857 504858 504859 504860 504861 504862 504863 504864 504865 504866 504867 504868 504869 504870 504871 504872 504873 504874 504875 504876 504877 504878 504879 504880 504881 504882 504883 504884 504885 504886 504887 504888 504889 504890 504891 504892 504893 504894 504895 504896 504897 504898 504899 504900 504901 504902 504903 504904 504905 504906 504907 504908 504909 504910 504911 504912 504913 504914 504915 504916 504917 504918 504919 504920 504921 504922 504923 504924 504925 504926 504927 504928 504929 504930 504931 504932 504933 504934 504935 504936 504937 504938 504939 504940 504941 504942 504943 504944 504945 504946 504947 504948 504949 504950 504951 504952 504953 504954 504955 504956 504957 504958 504959 504960 504961 504962 504963 504964 504965 504966 504967 504968 504969 504970 504971 504972 504973 504974 504975 504976 504977 504978 504979 504980 504981 504982 504983 504984 504985 504986 504987 504988 504989 504990 504991 504992 504993 504994 504995 504996 504997 504998 504999 505000 505001 505002 505003 505004 505005 505006 505007 505008 505009 505010 505011 505012 505013 505014 505015 505016 505017 505018 505019 505020 505021 505022 505023 505024 505025 505026 505027 505028 505029 505030 505031 505032 505033 505034 505035 505036 505037 505038 505039 505040 505041 505042 505043 505044 505045 505046 505047 505048 505049 505050 505051 505052 505053 505054 505055 505056 505057 505058 505059 505060 505061 505062 505063 505064 505065 505066 505067 505068 505069 505070 505071 505072 505073 505074 505075 505076 505077 505078 505079 505080 505081 505082 									

Chain of Custody Record--US Army Corps of Engineers

Project: Bradford Island Spring Fish Tissue Location: Cascade Locks, Oregon Lab: Enviro-Lab/Enviro (EPA Prime Contract) POC: Tim Wilson (BMT) Phone No.: (503) 324-3300 Sampling Team: 10/25 COOLER No.: 01 Report Results To: Kristin Kerns Phone No.: 206-764-3434				Analytical Method and Preparation/Extraction Total Lipids (Bligh-Dyer) PCB Congeners (1668) Mercury (2471A) Organochlorine Pesticides (EPA 8081)				Additional Lab Instructions: Additional Cleanup Steps: See task order. Sample Specific Notes:	
Sample Identification	Sample Date (2022)	Sample Time	Matrix	Container	# of Containers				
* SBAC07	5/18/2022	9:35	Tissue	enviro	1	X	X	X	
* SBAC08	5/18/2022	9:42	Tissue	enviro	1	X	X	X	
* SBAC09	5/18/2022	9:51	Tissue	enviro	1	X	X	X	
* SBAC10	5/18/2022	9:58	Tissue	enviro	1	X	X	X	
* SBAC11	5/18/2022	10:02	Tissue	enviro	1	X	X	X	
* SBAC12	5/18/2022	10:07	Tissue	enviro	1	X	X	X	
* SBAC13	5/18/2022	10:15	Tissue	enviro	1	X	X	X	
* SBAC14	5/18/2022	10:15	Tissue	enviro	1	X	X	X	
* SBAC15	5/18/2022	10:15	Tissue	enviro	1	X	X	X	
* SBAC16	5/18/2022	10:18	Tissue	enviro	1	X	X	X	
* SBAC17	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC18	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC19	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC20	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC21	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC22	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC23	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC24	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC25	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC26	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC27	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC28	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC29	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC30	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC31	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC32	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC33	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC34	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC35	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC36	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC37	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC38	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC39	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC40	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC41	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC42	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC43	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC44	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC45	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC46	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC47	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC48	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC49	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC50	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC51	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC52	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC53	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC54	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC55	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC56	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC57	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC58	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC59	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC60	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC61	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC62	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC63	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC64	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC65	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC66	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC67	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC68	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC69	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC70	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC71	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC72	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC73	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC74	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC75	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC76	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC77	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC78	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC79	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC80	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC81	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC82	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC83	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC84	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC85	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC86	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC87	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC88	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC89	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC90	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC91	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC92	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC93	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC94	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC95	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC96	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC97	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC98	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC99	5/18/2022	10:21	Tissue	enviro	1	X	X	X	
* SBAC100	5/18/2022	10:21	Tissue	enviro	1	X	X	X	

FEDER AIRBILL Tracking Number: _____
Primer Matrix Identification: _____
Common environmental contaminants and concentrations - PCBs, Mercury
Special Instructions/QC Requirements & Comments: _____
 See task order

Authorizing: Signature: _____ Date/Time: _____ Organization: USACE	Received by: Signature: _____ Date/Time: 7/13/22 15:00 Organization: USACE
Requisitioned by: Signature: _____ Date/Time: _____ Organization: _____	Received by: Signature: _____ Date/Time: _____ Organization: _____
Requisitioned by: Signature: _____ Date/Time: _____ Organization: _____	Received by: Signature: _____ Date/Time: _____ Organization: _____

☐ Sample Disposed Options: /
☐ Return To Site
☒ Disposed By Lab
☐ Active For _____ Months

APPENDIX C: Daily Water Temperatures

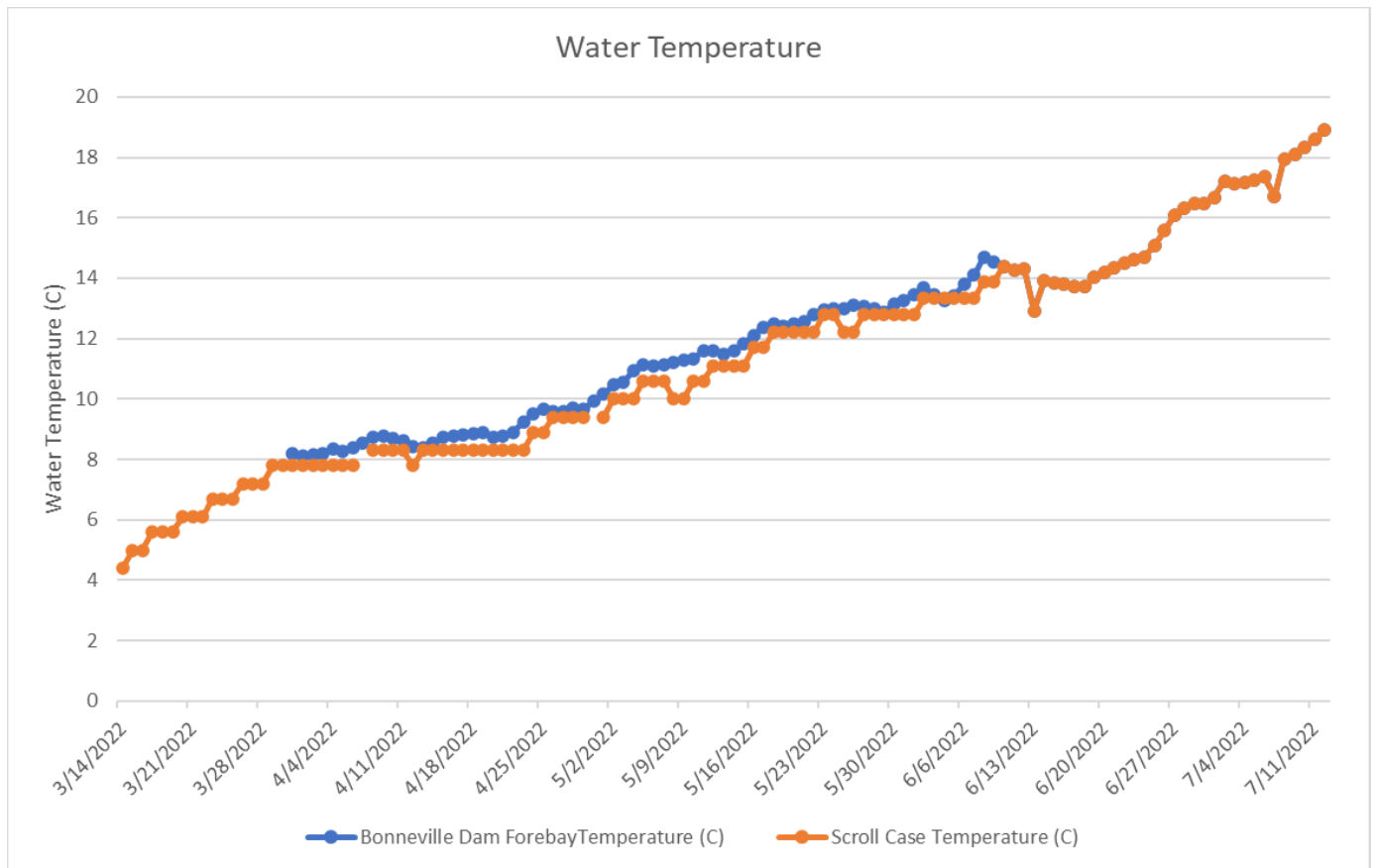


Figure C-1. Daily water temperatures recorded in the Bonneville Dam Forebay and Scroll case between 14 March and 12 July 2022. (source: http://www.cbr.washington.edu/dart/query/river_daily)